



SEQUENCE LISTING

<110> Nicosia, Alfredo
Lahm, Armin
Tramontano, Anna
Cortese, Riccardo

<120> Mimotopes of hypervariable region 1 of the E2
glycoprotein of HCV and uses thereof

<130> Mewburn

<140> US 09/463,098
<141> 2000-05-15

<150> PCT/EP99/03344
<151> 1999-05-14

<150> GB 9810756.8
<151> 1998-05-19

<160> 199

<170> PatentIn Ver. 2.1

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Gly Leu Phe Ser Pro Gly Ala Ser Gln Lys
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Ser Leu Phe Ser Pro Gly Ala Ser Gln Lys
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Thr Ser Leu Phe Ser Pro Gly Pro Lys Gln Asn
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<223> Description of Artificial Sequence: Synthetic
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<400> 71
Gln Thr His Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Ser Leu Phe Ser Leu Gly Ser Lys Gln Asn
20 25

<210> 72
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 72
Gln Thr His Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Ser Leu Phe Ser Leu Gly Pro Lys Gln Asn
20 25

<210> 73
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 73
Gln Thr His Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Ser Leu Phe Ser Gln Gly Ala Lys Gln Asn
20 25

<210> 74
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<400> 74
Gln Thr His Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Ser Leu Phe Ser Gln Gly Ser Lys Gln Asn
20 25

<210> 75
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 75
Gln Thr His Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Ser Leu Phe Ser Gln Gly Pro Lys Gln Asn
20 25

<210> 76
<211> 27
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<213> Artificial Sequence

<220>
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<400> 76
Gln Thr His Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Gly Leu Phe Ser Pro Gly Ala Lys Gln Asn
20 25

<210> 77
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
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<400> 77
Gln Thr His Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Gly Leu Phe Ser Pro Gly Ser Lys Gln Asn
20 25

<210> 78
<211> 27
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 78

Gln Thr His Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Gly Leu Phe Ser Pro Gly Pro Lys Gln Asn
20 25

<210> 79

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 79

Gln Thr His Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Gly Leu Phe Ser Leu Gly Ala Lys Gln Asn
20 25

<210> 80

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 80

Gln Thr His Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Gly Leu Phe Ser Leu Gly Ser Lys Gln Asn
20 25

<210> 81

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 81

Gln Thr His Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Gly Leu Phe Ser Leu Gly Pro Lys Gln Asn
20 25

<210> 82
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<400> 82
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1 5 10 15

Thr Gly Leu Phe Ser Gln Gly Ala Lys Gln Asn
20 25

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<400> 83
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Thr Gly Leu Phe Ser Gln Gly Ser Lys Gln Asn
20 25

<210> 84
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
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<400> 84
Gln Thr His Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Gly Leu Phe Ser Gln Gly Pro Lys Gln Asn
20 25

<210> 85
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<213> Artificial Sequence

<220>
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<400> 85
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1 5 10 15

Thr Arg Leu Phe Ser Pro Gly Ala Lys Gln Asn
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<210> 86
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<400> 86
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1 5 10 15

Thr Arg Leu Phe Ser Pro Gly Ser Lys Gln Asn
20 25

<210> 87
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<400> 87
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1 5 10 15

Thr Arg Leu Phe Ser Pro Gly Pro Lys Gln Asn
20 25

<210> 88
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<400> 88
Gln Thr His Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Arg Leu Phe Ser Leu Gly Ala Lys Gln Asn
20 25

<210> 89
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<400> 89
Gln Thr His Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Arg Leu Phe Ser Leu Gly Ser Lys Gln Asn
20 25

<210> 90
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<400> 90
Gln Thr His Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Arg Leu Phe Ser Leu Gly Pro Lys Gln Asn
20 25

<210> 91
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<400> 91
Gln Thr His Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Arg Leu Phe Ser Gln Gly Ala Lys Gln Asn
20 25

<210> 92
<211> 27
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<220>
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peptide

<400> 92
Gln Thr His Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Arg Leu Phe Ser Gln Gly Ser Lys Gln Asn
20 25

<210> 93
<211> 27
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 93

Gln Thr His Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Arg Leu Phe Ser Gln Gly Pro Lys Gln Asn
20 25

<210> 94

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 94

Gln Thr Thr Thr Val Gly Gly Gln Ala Ser His Gln Ala Ser Ser Leu
1 5 10 15

Thr Ser Leu Phe Ser Pro Gly Ala Lys Gln Asn
20 25

<210> 95

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 95

Gln Thr Thr Thr Val Gly Gly Gln Ala Ser His Gln Ala Ser Ser Leu
1 5 10 15

Thr Ser Leu Phe Ser Pro Gly Ser Lys Gln Asn
20 25

<210> 96

<211> 27

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 96

Gln Thr Thr Thr Val Gly Gly Gln Ala Ser His Gln Ala Ser Ser Leu
1 5 10 15

Thr Ser Leu Phe Ser Pro Gly Pro Lys Gln Asn
20 25

<210> 97
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
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<400> 97
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser His Gln Ala Ser Ser Leu
1 5 10 15

Thr Ser Leu Phe Ser Leu Gly Ala Lys Gln Asn
20 25

<210> 98
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 98
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser His Gln Ala Ser Ser Leu
1 5 10 15

Thr Ser Leu Phe Ser Leu Gly Ser Lys Gln Asn
20 25

<210> 99
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
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<400> 99
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser His Gln Ala Ser Ser Leu
1 5 10 15

Thr Ser Leu Phe Ser Leu Gly Pro Lys Gln Asn
20 25

<210> 100
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 100
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser His Gln Ala Ser Ser Leu
1 5 10 15

Thr Ser Leu Phe Ser Gln Gly Ala Lys Gln Asn
20 25

<210> 101
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 101
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser His Gln Ala Ser Ser Leu
1 5 10 15

Thr Ser Leu Phe Ser Gln Gly Ser Lys Gln Asn
20 25

<210> 102
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 102
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser His Gln Ala Ser Ser Leu
1 5 10 15

Thr Ser Leu Phe Ser Gln Gly Pro Lys Gln Asn
20 25

<210> 103
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 103
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser His Gln Ala Ser Ser Leu
1 5 10 15

Thr Gly Leu Phe Ser Pro Gly Ala Lys Gln Asn
20 25

<210> 104
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 104
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser His Gln Ala Ser Ser Leu
1 5 10 15

Thr Gly Leu Phe Ser Pro Gly Ser Lys Gln Asn
20 25

<210> 105
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 105
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser His Gln Ala Ser Ser Leu
1 5 10 15

Thr Gly Leu Phe Ser Pro Gly Pro Lys Gln Asn
20 25

<210> 106
<211> 27
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 106
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser His Gln Ala Ser Ser Leu
1 5 10 15

Thr Gly Leu Phe Ser Leu Gly Ala Lys Gln Asn
20 25

<210> 107
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 107
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser His Gln Ala Ser Ser Leu
1 5 10 15

Thr Gly Leu Phe Ser Leu Gly Ser Lys Gln Asn
20 25

<210> 108
<211> 27
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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 108

Gln Thr Thr Thr Val Gly Gly Gln Ala Ser His Gln Ala Ser Ser Leu
1 5 10 15

Thr Gly Leu Phe Ser Leu Gly Pro Lys Gln Asn
20 25

<210> 109

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 109

Gln Thr Thr Thr Val Gly Gly Gln Ala Ser His Gln Ala Ser Ser Leu
1 5 10 15

Thr Gly Leu Phe Ser Gln Gly Ala Lys Gln Asn
20 25

<210> 110

<211> 27

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 110

Gln Thr Thr Thr Val Gly Gly Gln Ala Ser His Gln Ala Ser Ser Leu
1 5 10 15

Thr Gly Leu Phe Ser Gln Gly Ser Lys Gln Asn
20 25

<210> 111

<211> 27

<212> PRT

<213>, Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 111

Gln Thr Thr Thr Val Gly Gly Gln Ala Ser His Gln Ala Ser Ser Leu
1 5 10 15

Thr Gly Leu Phe Ser Gln Gly Pro Lys Gln Asn
20 25

<210> 112
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 112
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser His Gln Ala Ser Ser Leu
1 5 10 15
Thr Arg Leu Phe Ser Pro Gly Ala Lys Gln Asn
20 25

<210> 113
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 113
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser His Gln Ala Ser Ser Leu
1 5 10 15
Thr Arg Leu Phe Ser Pro Gly Ser Lys Gln Asn
20 25

B1
<210> 114
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 114
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser His Gln Ala Ser Ser Leu
1 5 10 15
Thr Arg Leu Phe Ser Pro Gly Pro Lys Gln Asn
20 25

<210> 115
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 115
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser His Gln Ala Ser Ser Leu
1 5 10 15

Thr Arg Leu Phe Ser Leu Gly Ala Lys Gln Asn
20 25

<210> 116
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
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<400> 116
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser His Gln Ala Ser Ser Leu
1 5 10 15

Thr Arg Leu Phe Ser Leu Gly Ser Lys Gln Asn
20 25

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<211> 27
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 117
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser His Gln Ala Ser Ser Leu
1 5 10 15

Thr Arg Leu Phe Ser Leu Gly Pro Lys Gln Asn
20 25

<210> 118
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
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<400> 118
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser His Gln Ala Ser Ser Leu
1 5 10 15

Thr Arg Leu Phe Ser Gln Gly Ala Lys Gln Asn
20 25

<210> 119
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<213> Artificial Sequence

<220>
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<400> 119
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser His Gln Ala Ser Ser Leu
1 5 10 15

Thr Arg Leu Phe Ser Gln Gly Ser Lys Gln Asn
20 25

<210> 120
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 120
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser His Gln Ala Ser Ser Leu
1 5 10 15

Thr Arg Leu Phe Ser Gln Gly Pro Lys Gln Asn
20 25

<210> 121
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
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<400> 121
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Ser Leu Phe Ser Pro Gly Ala Lys Gln Asn
20 25

<210> 122
<211> 27
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<213> Artificial Sequence

<220>
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<400> 122
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Ser Leu Phe Ser Pro Gly Ser Lys Gln Asn
20 25

<210> 123
<211> 27
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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 123

Gln Thr Thr Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Ser Leu Phe Ser Pro Gly Pro Lys Gln Asn
20 25

<210> 124

<211> 27

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 124

Gln Thr Thr Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Ser Leu Phe Ser Leu Gly Ala Lys Gln Asn
20 25

<210> 125

<211> 27

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 125

Gln Thr Thr Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Ser Leu Phe Ser Leu Gly Ser Lys Gln Asn
20 25

<210> 126

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 126

Gln Thr Thr Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Ser Leu Phe Ser Leu Gly Pro Lys Gln Asn
20 25

<210> 127
<211> 27
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<213> Artificial Sequence

<220>
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<400> 127
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Ser Leu Phe Ser Gln Gly Ala Lys Gln Asn
20 25

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<220>
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<400> 128
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Ser Leu Phe Ser Gln Gly Ser Lys Gln Asn
20 25

<210> 129
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
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<400> 129
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Ser Leu Phe Ser Gln Gly Pro Lys Gln Asn
20 25

<210> 130
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
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<400> 130
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Gly Leu Phe Ser Pro Gly Ala Lys Gln Asn
20 25

<210> 131
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
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<400> 131
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Gly Leu Phe Ser Pro Gly Ser Lys Gln Asn
20 25

<210> 132
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
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<400> 132
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Gly Leu Phe Ser Pro Gly Pro Lys Gln Asn
20 25

<210> 133
<211> 27
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 133
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Gly Leu Phe Ser Leu Gly Ala Lys Gln Asn
20 25

<210> 134
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 134
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Gly Leu Phe Ser Leu Gly Ser Lys Gln Asn
20 25

<210> 135
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 135
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Gly Leu Phe Ser Leu Gly Pro Lys Gln Asn
20 25

<210> 136
<211> 27
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 136
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Gly Leu Phe Ser Gln Gly Ala Lys Gln Asn
20 25

<210> 137
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 137
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Gly Leu Phe Ser Gln Gly Ser Lys Gln Asn
20 25

<210> 138
<211> 27
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 138

Gln Thr Thr Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Gly Leu Phe Ser Gln Gly Pro Lys Gln Asn
20 25

<210> 139

<211> 27

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 139

Gln Thr Thr Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Arg Leu Phe Ser Pro Gly Ala Lys Gln Asn
20 25

b)

<210> 140

<211> 27

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 140

Gln Thr Thr Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Arg Leu Phe Ser Pro Gly Ser Lys Gln Asn
20 25

<210> 141

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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 141

Gln Thr Thr Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Arg Leu Phe Ser Pro Gly Pro Lys Gln Asn
20 25

<210> 142
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<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 142
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Arg Leu Phe Ser Leu Gly Ala Lys Gln Asn
20 25

<210> 143
<211> 27
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 143
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Arg Leu Phe Ser Leu Gly Ser Lys Gln Asn
20 25

<210> 144
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 144
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Arg Leu Phe Ser Leu Gly Pro Lys Gln Asn
20 25

<210> 145
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 145
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Arg Leu Phe Ser Gln Gly Ala Lys Gln Asn
20 25

<210> 146
<211> 27
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 146
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Arg Leu Phe Ser Gln Gly Ser Lys Gln Asn
20 25

<210> 147
<211> 27
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<220>
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<400> 147
Gln Thr Thr Thr Val Gly Gly Gln Ala Ser Arg Gln Ala Ser Ser Leu
1 5 10 15

Thr Arg Leu Phe Ser Gln Gly Pro Lys Gln Asn
20 25

<210> 148
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<220>
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<223> Xaa is Val or Thr

<220>
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<223> Xaa is Gln, Ser or Val

<220>
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<222> (9)
<223> Xaa is Ala, Gln or Val

<220>
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<222> (10)
<223> Xaa is Ser, Gly or Ala

<220>
<221> SITE
<222> (12)
<223> Xaa is Gln, Ala or Thr

<220>
<221> SITE
<222> (13)
<223> Xaa is Ala, Thr or Val

<220>
<221> SITE
<222> (14)
<223> Xaa is Ser, His or Arg

<220>
<221> SITE
<222> (15)
<223> Xaa is Ser, Gly or Arg

<220>
<221> SITE
<222> (17)
<223> Xaa is Thr or Val

<220>
<221> SITE
<222> (18)
<223> Xaa is Ser or Gly

<220>
<221> SITE
<222> (24)
<223> Xaa is Ala, Ser or Pro

<220>
<221> SITE
<222> (25)
<223> Xaa is Lys, Ser or Gln

<220>
<221> SITE
<222> (27)
<223> Xaa is Asn or Lys

<400> 148
Xaa Thr Xaa Xaa Xaa Gly Gly Xaa Xaa Xaa His Xaa Xaa Xaa Xaa Leu
1 5 10 15

Xaa Xaa Leu Phe Ser Pro Gly Xaa Xaa Gln Xaa
20 25

<210> 149
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 149
Thr Thr Thr Thr Gly Gly Val Gln Gly His Thr Thr Arg Gly Leu
1 5 10 15

Val Arg Leu Phe Ser Leu Gly Ser Lys Gln Asn
20 25

<210> 150
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 150
Gln Thr Arg Thr Val Gly Gly Gln Met Gly His Gly Val Arg Gly Leu
1 5 10 15

Thr Ser Leu Phe Ser Ala Gly Ser Ala Arg Asn
20 25

<210> 151
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 151
Ser Thr His Val Thr Gly Ala Leu Gln Gly Arg Ala Ala Tyr Gly Ile
1 5 10 15

Thr Ser Phe Leu Ser His Gly Pro Ser Gln Lys
20 25

<210> 152
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 152
His Thr Arg Val Thr Gly Gly Val Gln Gly His Val Thr Ser Thr Leu
1 5 10 15

Thr Ser Leu Phe Arg Pro Gly Ala Ser Gln Lys
20 25

<210> 153
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 153
Glu Thr His Thr Ser Gly Gly Ser Val Ala Arg Ala Ala Phe Gly Leu
1 5 10 15
Thr Ser Ile Phe Ser Pro Gly Ala Lys Gln Asn
20 25

<210> 154
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 154
Glu Thr His Val Thr Gly Gly Ser Ala Gly Arg Thr Thr Ala Gly Leu
1 5 10 15
Val Gly Leu Leu Thr Pro Gly Ala Lys Gln Asn
20 25

<210> 155
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 155
Ala Thr Tyr Thr Thr Gly Gly Ser Ala Ala Lys Thr Ala His Arg Leu
1 5 10 15
Ala Ser Phe Phe Thr Val Gly Pro Lys Gln Asp
20 25

<210> 156
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 156
Asp Thr His Val Val Gly Gly Ala Thr Glu Arg Thr Ala Tyr Ser Leu
1 5 10 15
Thr Gly Leu Phe Thr Ala Gly Pro Lys Gln Asn
20 25

<210> 157
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 157
Gly Thr Thr Cys Gln Gly Gly Val Tyr Ala Arg Gly Ala Gly Gly Ile
1 5 10 15
Ala Ser Leu Phe Ser Val Gly Ala Asn Gln Lys
20 25

<210> 158
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 158
Arg Thr Leu Ser Phe Gly Gly Leu Pro Gly His Thr Thr His Gly Phe
1 5 10 15
Ala Ser Leu Ser Ala Pro Gly Ala Lys Gln Asn
20 25

<210> 159
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 159
Arg Thr Ile Leu Met Ala Gly Arg Gln Ala Glu Val Thr Gln Ser Phe
1 5 10 15
Pro Gly Leu Phe Ser Leu Ala Pro Ser Gln Lys
20 25

<210> 160
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 160
Asn Thr His Ala Met Gly Gly Val Val Ala Arg Ser Ala Tyr Arg Ile
1 5 10 15
Thr Ser Phe Leu Ser Pro Gly Ala Ala Gln Asn
20 25

<210> 161
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 161
Ser Thr Arg Ile Thr Gly Gly Ser Met Ala Arg Asp Val Tyr Arg Phe
1 5 10 15
Thr Gly Phe Phe Ala Arg Gly Pro Ser Gln Asn
20 25

<210> 162
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 162
Gly Thr His Thr Ile Gly Gly Ser Gln Ala Gln Gln Ala Asn Arg Phe
1 5 10 15
Val Ser Met Phe Ser Arg Gly Pro Ser Gln Lys
20 25

<210> 163
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 163
Asn Thr Tyr Val Thr Gly Gly Ala Ala Ala Arg Gly Ala Ser Gly Ile
1 5 10 15

Thr Ser Leu Phe Ser Arg Gly Pro Ser Gln Lys
20 25

<210> 164
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 164
Asn Thr Tyr Ala Ser Gly Gly Ala Val Gly His Gln Thr Ala Ser Phe
1 5 10 15

Val Arg Leu Leu Ala Pro Gly Pro Gln Gln Asn
20 25

<210> 165
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 165
Glu Thr His Thr Thr Gly Gly Glu Ala Ala Arg Thr Thr Leu Gly Ile
1 5 10 15
Ala Ser Leu Phe Thr Ser Gly Ala Asn Gln Lys
20 25

<210> 166
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 166
Glu Thr His Thr Thr Gly Gly Ser Ala Ala Arg Ala Thr Phe Gly Ile
1 5 10 15
Ala Asn Phe Phe Thr Pro Gly Ala Lys Gln Asn
20 25

<210> 167
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 167
Glu Thr Tyr Thr Ser Gly Gly Ser Ala Ala His Thr Thr Ser Gly Phe
1 5 10 15
Val Ser Phe Phe Ser Pro Gly Ala Lys Gln Asn
20 25

<210> 168
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 168
Gly Thr Thr Arg Val Gly Gly Ala Ala Ala Arg Thr Thr Ser Ser Phe
1 5 10 15

Ala Ser Leu Leu Thr His Gly Pro Ser Gln Asn
20 25

<210> 169
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 169
Asn Thr His Thr Val Gly Ala Ala Ser Arg Ser Thr Ala Gly Leu
1 5 10 15
Thr Ser Leu Phe Ser Ile Gly Arg Ser Gln Lys
20 25

<210> 170
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 170
Asn Thr Arg Val Thr Gly Gly Val Gln Ser Arg Thr Thr Gly Thr Phe
1 5 10 15
Val Gly Leu Phe Thr Pro Gly Pro Ser Gln Arg
20 25

<210> 171
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 171
Asn Thr His Val Ser Gly Gly Arg Val Gly His Thr Thr Arg Ser Leu
1 5 10 15
Thr Ser Phe Phe Thr Pro Gly Pro Gln Gln Lys
20 25

<210> 172
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 172
Ser Thr Arg Val Ser Gly Gly Gln Gln Gly Arg Ala Ala His Ser Leu
1 5 10 15
Thr Ser Leu Phe Thr Leu Gly Ala Ser Gln Asn
20 25

<210> 173
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 173
Ser Thr Arg Ile Thr Ala Gln Ala Glu Gly Arg Gly Ala Ser Thr Leu
1 5 10 15
Thr Ser Leu Phe Thr Ser Gly Ala Ser Gln Lys
20 25

<210> 174
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 174
Ser Thr Ile Val Ser Gly Gly Thr Val Ala Arg Thr Thr His Ser Leu
1 5 10 15
Ala Ser Leu Phe Thr Gln Gly Ala Ser Gln Lys
20 25

<210> 175
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 175
Glu Thr Arg Val Thr Gly Gly Ala Ala Gly His Thr Ala Phe Gly Phe
1 5 10 15
Ala Ser Phe Leu Ala Pro Gly Ala Lys Gln Lys
20 25

<210> 176
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 176
Asn Thr Tyr Val Thr Gly Gly Ser Ala Gly Arg Ala Val Ala Gly Phe
1 5 10 15
Ala Gly Leu Leu Gln Pro Gly Ala Lys Gln Asn
20 25

<210> 177
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 177
Glu Thr His Ser Val Gly Gly Ser Ala Ala His Thr Thr Ser Arg Phe
1 5 10 15
Thr Ser Leu Phe Ser Pro Gly Pro Gln Gln Asn
20 25

<210> 178
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 178
Glu Thr His Val Thr Gly Gly Ser Ala Ala Ser Thr Thr Ser Thr Leu
1 5 10 15

Thr Lys Leu Phe Met Pro Gly Ala Ser Gln Asn
20 25

<210> 179
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 179
Gln Thr Arg Thr Val Gly Gly Ala Asn Ala Arg Asn Thr Tyr Gly Leu
1 5 10 15

Thr Thr Leu Phe Thr Thr Gly Pro Lys Gln Asn
20 25

<210> 180
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 180
Gly Thr Thr Thr Val Gly Ser Ala Val Ser Ser Thr Thr Tyr Arg Phe
1 5 10 15

Ala Gly Met Phe Ser Gln Gly Ala Gln Gln Asn
20 25

<210> 181
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 181
Asn Thr His Thr Val Gly Gly Thr Glu Gly Phe Ala Thr Gln Arg Leu
1 5 10 15

Thr Ser Leu Phe Ala Leu Gly Pro Ser Gln Lys
20 25

<210> 182
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 182
Asn Thr His Val Thr Gly Gly Val Val Ala Arg Asn Ala Tyr Arg Ile
1 5 10 15

Thr Thr Phe Leu Asn Pro Gly Pro Ala Gln Asn
20 25

<210> 183
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 183
His Thr Tyr Thr Thr Gly Gly Thr Ala Ser Arg His Thr Gln Ala Phe
1 5 10 15
Ala Gly Leu Phe Asp Ile Gly Pro Gln Gln Lys
20 25

<210> 184
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 184
Lys Thr His Val Thr Gly Met Val Ala Gly Lys Asn Ala His Thr Leu
1 5 10 15
Ser Ser Ile Phe Thr Ser Gly Pro Ser Gln Asn
20 25

<210> 185
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 185
Gly Thr His Val Thr Gly Gly Lys Val Ala Tyr Thr Thr Gln Gly Phe
1 5 10 15
Thr Ser Phe Phe Ser Arg Gly Pro Ser Gln Lys
20 25

<210> 186
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 186
Glu Thr Tyr Thr Ser Gly Gly Asn Ala Gly His Thr Met Thr Gly Ile
1 5 10 15
Val Arg Phe Phe Ala Pro Gly Pro Lys Gln Asn
20 25

<210> 187
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 187
Ser Thr Tyr Ser Met Gly Gly Ala Ala Ala His Asn Ala Arg Gly Leu
1 5 10 15
Thr Ser Leu Phe Ser Ser Gly Ala Ser Gln Arg
20 25

<210> 188
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 188
Glu Thr His Val Thr Gly Gly Ser Ala Gly Arg Ser Val Leu Gly Ile
1 5 10 15
Ala Ser Phe Leu Thr Arg Gly Pro Lys Gln Asn
20 25

<210> 189
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 189
Glu Thr Tyr Ile Ile Gly Ala Ala Thr Gly Arg Thr Thr Ala Gly Leu
1 5 10 15
Thr Ser Leu Phe Ser Ser Gly Ser Gln Gln Asn
20 25

<210> 190
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 190
Glu Thr His Val Thr Gly Gly Asn Ala Gly Arg Thr Thr Ala Gly Leu
1 5 10 15
Val Gly Leu Leu Thr Pro Gly Ala Lys Gln Asn
20 25

<210> 191
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 191
Glu Thr His Val Thr Gly Gly Ser Ala Gly His Thr Ala Ala Gly Ile
1 5 10 15
Ala Ser Phe Phe Ala Pro Gly Pro Lys Gln Asn
20 25

<210> 192
<211> 27
<212> PRT
<213> Hepatitis C virus

<400> 192
Asn Thr Arg Val Thr Gly Gly Val Gln Ser His Thr Thr Arg Gly Phe
1 5 10 15
Val Gly Met Phe Ser Leu Gly Pro Ser Gln Arg
20 25

35

<210> 193
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 193
gcgagatctt aattaacgat atccagctta taaac

36

<210> 194
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 194
tccggatcct tagtggtggt ggtggtggtg cggtag

18

BT

<210> 195
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 195
ggcggccgtt taattaac

32

<210> 196
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 196
gcgagatctt aattaaccag acccataccca cc

45

<210> 197
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 197
tccggatcct tagtggtggt ggtggtggtg gttctgtttc gcgcc

b1

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<210> 198
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<221> SITE
<222> (1)
<223> Xaa is Ser, Gly, Ala, Asp, Lys, Arg or Thr

<220>
<221> SITE
<222> (2)
<223> Xaa is Leu, Phe, Ile, Met or Trp

<220>
<221> SITE
<222> (3)
<223> Xaa is Phe or Leu

<220>
<221> SITE
<222> (4)...(5)
<223> Xaa is any amino acid

<220>
<221> SITE
<222> (6)
<223> Xaa is Gly or Ala

<220>
<223> Description of Artificial Sequence: Consensus
      sequence

<400> 198
Xaa Xaa Xaa Xaa Xaa Xaa
  1           5

<210> 199
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<221> SITE
<222> (1)
<223> Xaa is Ser, Gly, Ala, Asp, Lys, Arg or Thr

<220>
<221> SITE
<222> (2)
<223> Xaa is Leu, Phe, Ile, Met or Trp

<220>
<221> SITE
<222> (3)
<223> Xaa is Phe or Leu

<220>
<221> SITE
<222> (4)...(5)
<223> Xaa is any amino acid
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<220>
<221> SITE
<222> (6)
<223> Xaa is Gly or Ala

<220>
<221> SITE
<222> (7)
<223> Xaa is Ala, Pro or Ser

<220>
<223> Description of Artificial Sequence: Consensus
sequence

Bobby
and
<400> 199
Xaa Xaa Xaa Xaa Xaa Xaa
1 5